



Monitoring Soil Properties Based on Remote Sensing

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Message from the Guest Editors

Increasing food production has become an urgent necessity to address population growth, which necessitates the intensification of food production. Hence, the careful management of soil requires an understanding of its characteristics as well as the factors that limit its production. No doubt that the soil is a complex system, and is affected by surrounding climatic factors. Recently, remote sensing data have become more available and have high resolution and capabilities, provide a valuable basis for updating and monitoring soil properties, and can be used in integration with other environmental data to monitor changes in soil properties and their impact on crop production. We welcome contributions on the following topics:

- UAV-based soil mapping
- Soil properties using visible–near-infrared (VIS-NIR) reflectance spectroscopy
- Mapping soil organic carbon
- Mapping soil characteristics
- Mapping soil salinity
- Mapping land degradation
- Mapping soil water retention
- Soil erosion
- Satellite time series
- Assessing and monitoring soil quality
- Soil conservation evaluation
- Mapping soil nutrients using remote sensing
- Soil quality and crop performance



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